



Express Mail Label No.: EL932932060US
Date of Deposit: January 26, 2004

Atty. Docket No.: 17633/1120 PATENT
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Faustman, et al.
Serial No.: 09/258,682
Filed: February 26, 1999
Entitled: Methods for Diagnosing and
Treating Autoimmune Disease

Examiner: Nolan, P.
Group Art Unit: 1644
Notice of Allowance Dated: 10/31/03
Conf. No.: 4225

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUBMISSION UNDER 37 C.F.R. §1.312

Sir:

A Notice of Allowance was mailed in the above-noted U.S. patent application on October 31, 2003.

Enclosed is a copy of the Information Disclosure Statement filed August 17, 1999, including a copy of the return postcard and copies of all references cited. Applicants have not received the initialed Form 1449 acknowledging that the references were considered by the Examiner. Applicant's representative telephoned Examiner Nolan to request the initialed copy, but he was unable to find record of the IDS having been filed. In order to have the references considered on the record, Examiner Nolan suggested Applicants file a copy of the IDS with a Rule 312 Amendment.

Applicants respectfully request acknowledgment that the IDS and references submitted herewith have been considered.

It is believed that no fees are due with regard to this submission. However, if overlooked, the Commissioner for Patents is hereby authorized to charge all fees in the total

Serial No.: 09/258,682

amount to Deposit Account No. 16-0085, Reference 17633/1120.

Date: January 26, 2004

Respectfully submitted,



Name: Kathleen Williams

Registration No.: 34,380

Customer No.: 29933

Palmer & Dodge LLP

111 Huntington Avenue

Boston, MA 02199-7613

Tel. (617) 239-0100



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Denise L. Faustman
Takuma Hayashi

Group Art Unit: 1635

U.S. Serial No.: 09/258,682

Examiner: not assigned

Filed: February 27, 1998

Entitled: Methods for Diagnosing and Treating
Autoimmune Disease

Attorney Docket No.: 11275/79290

Assistant Commissioner for Patents

Washington, D.C. 20231

COPY

TRANSMITTAL LETTER

Enclosed for filing in the above-referenced patent please find the following documents:

1. Information Disclosure Statement
2. PTO Form 1449 with references; and
3. Return Postcard.

The Assistant Commissioner for Patents is hereby authorized to charge any fees or credit any overpayment in the total fees to Deposit Account No. 19-0733.

Respectfully submitted,

Date: 8-17-99



Kathleen M. Williams, Ph.D.

Reg. No. 34,380

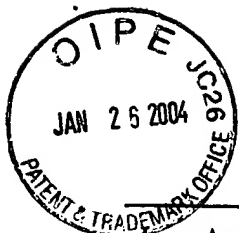
Banner & Witcoff, Ltd.

28 State Street, 28th Floor

Boston, MA 02109

Telephone: (617) 227-7111

Facsimile: (617) 277-4399



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Denise L. Faustman
Takuma Hayashi

Group Art Unit: 1635

U.S. Serial No.: 09/258,682

Examiner: not assigned

Filed: February 27, 1998

Entitled: Methods for Diagnosing and Treating
Autoimmune Disease

Attorney Docket No.: 11275/79290

Assistant Commissioner for Patents

Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

UNDER 37 CFR §§ 1.56, 1.97 AND 1.98

Dear Sir:

In accordance with the duty of disclosure under 37 CFR § 1.56, Applicant submits this Information Disclosure Statement pursuant to 37 CFR §§ 1.97 and 1.98 in the above-identified application for consideration by the Patent Office. A listing of the cited documents is also enclosed, as well as, for the Examiner's convenience, copies of the documents in the list. Pursuant to 37 CFR § 1.97(b)(3), because this Statement is being submitted before the first Office Action on the merits, no fee is required.

Applicant does not intend to represent that any of the documents submitted herein is material prior art to this invention or that the list represents an exhaustive search of documents related to this invention.

Applicant respectfully requests that the documents submitted herein be considered and made of record in this application.

8-17-99

Date

Respectfully submitted,

Kathleen M. Williams

Kathleen M. Williams, Ph.D.
Reg. No. 34,380
Attorney of Record
BANNER & WITCOFF, LTD.
28 State Street, 28th Floor
Boston, MA 02109
Telephone: (617) 227-7111
Facsimile: (617) 227-4399

FORM PTO-1449
(Rev. 2-32)

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.
11275/79290

Serial No.
09/258,682



**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

Applicant: Denise L. Faustman
Takuma Hayashi

Filing Date:
February 27, 1998

Group: 1635

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	5,538,854		Faustman			23 July 1996

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Translation Yes No
WO95/24914			
WO95/25533 page 7, lines 16-23			

OTHER DOCUMENTS (Including Author, Date, Pertinent Pages, Etc).

	Aristarkhov, et al., Proc. Natl. Acad. Sci. USA, 93:9303-9307 (1996)
	Boches, et al., Science, 215:978-980 (1982)
	Driscoll, et al., J. Biol. Chem., 266:4789-4792 (1990)
	Eytan, et al., Proc. Natl. Acad. Sci. USA, 86:7751-7755 (1989)
	Ganoth, et al., J. Biol. Chem., 263:12412-12419 (1988)
	Goldberg, Eur. J. Biochem. 203:9-23 (1992)
	Grilli, et al., Science, 274:1383-1385 (1996)

		Gronostajski, et al., <u>Biol. Chem.</u> , 260:3344-3349 (1985)
		Haas and Siepmann, <u>FASEB J.</u> , 11:1257-1268 (1997)
		Hershko, et al., <u>Ann. Rev. Biochem.</u> , 61:761-807 (1992)
		Kopp and Ghosh, <u>Science</u> , 265:956-969 (1994)
		Kwon, et al., <u>Diabetes</u> , 47:583-591 (1998)
		Kwon, et al., <u>Endocrinology</u> , 136:4790-4795 (1995)
		McGuire, et al., <u>Biochem. Biophys. Acta.</u> , 967:195-203 (1988)
		Orolowski, <u>Biochemistry</u> , 29:10289-10297 (1990)
		Rechsteiner, et al., <u>Ann. Rev. Cell. Biol.</u> , 3:1-30 (1987)
		Speiser, et al., <u>J. Biol. Chem.</u> , 257:14122-14127 (1985)
		Townsley, et al., <u>Proc. Natl. Acad. Sci. USA</u> , 94:2362-2367 (1997)
		Van Nocker, et al., <u>Mol. Cell. Biol.</u> , 16:6020-6028 (1996)
		Waxman, et al., <u>J. Biol. Chem.</u> , 262:2451-2457 (1987)
EXAMINER		DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication



U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT				Attorney Docket No. 17633/1120		Serial No. 09/258,682		
				Applicant(s): Faustman, et al.				
				Filing Date: February 26, 1999		Group: 1644		
U.S. PATENT DOCUMENTS								
Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)	
	1.	5,538,854	July 23, 1996	Faustman	435	7.24		
FOREIGN PATENT DOCUMENTS								
Examiner Initial		Document No.	Publication Date	Country	Class	Subclass	Translation	
							YES	NO
	2.	WO95/24914	Sept. 21, 1995	WO	A61K	38/00		
	3.	WO95/25533	Sept. 28, 1995	WO	A61K	38/06		
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)								
	4.	Aristarkhov, et al., "E2-C, a Cyclin-Selective Ubiquitin Carrier Protein Required for the Destruction of Mitotic Cyclins", <i>Proceedings of the National Academy of Sciences USA</i> (1996), V. 93, Pages 4294-4299.						
	5.	Boches, et al., "Role for the Adenosine Triphosphate-Dependent Proteolytic Pathway in Reticulocyte Maturation", <i>Science</i> (1982), V. 215, Pages 978-980.						
	6.	Driscoll, et al., "The Proteasome (Multicatalytic Protease) Is a Component of the 1500-kDa Proteolytic Complex Which Degrades Ubiquitin-Conjugated Proteins", <i>Journal of Biological Chemistry</i> (1990), V. 265, No. 9, Pages 4789-4792.						
	7.	Eytan, et al., "ATP-Dependent Incorporation of 20S Protease into the 26S Complex that Degrades Proteins Conjugated to Ubiquitin", <i>Proceedings of the National Academy of Sciences USA</i> (1989), V. 86, Pages 7751-7755.						
	8.	Ganoth, et al., "A Multicomponent System That Degrades Proteins Conjugated to Ubiquitin", <i>Journal of Biological Chemistry</i> (1988), V. 263, No. 25, Pages 12412-12419.						
	9.	Goldberg, "The Mechanism and Functions of ATP-Dependent Proteases in Bacterial and Animal Cells", <i>European Journal of Biochemistry</i> (1992), V. 203, Pages 9-23.						
	10.	Grilli, et al., "Neuroprotection by Aspirin and Sodium Salicylate Through Blockade of NF- κ B Activation", <i>Science</i> (1996), V. 274, Pages 1383-1385.						
	11.	Gronostajski, et al., "The ATP Dependence of the Degradation of Short-and Long-Lived Proteins in Growing Fibroblasts", <i>Journal of Biological Chemistry</i> (1985), V. 260, No. 6, Pages 3344-49.						
	12.	Haas, et al., "Pathways of Ubiquitin Conjugation", <i>Faseb Journal</i> (1997), V. 11, Pages 1257-1268.						

13.	Hershko, et al., "The Ubiquitin System for Protein Degradation", <i>Annual Review of Biochemistry</i> (1992), V. 61, Pages 761-807.
14.	Kopp, et al., "Inhibition of NF- κ B by Sodium Salicylate and Aspirin", <i>Science</i> (1994), V. 265, Pages 956-959.
15.	Kwon, et al., "Evidence for Involvement of the Proteasome Complex (26S) and NF κ B in IL-1 β -Induced Nitric Oxide and Prostaglandin Production by Rat Islets and RINm5F Cells", <i>Diabetes</i> (1998), V. 47, Pages 583-591.
16.	Kwon, et al., "Interleukin-1 β -Induced Nitric Oxide Synthase Expression by Rat Pancreatic β -Cells: Evidence for the Involvement of Nuclear Factor κ B in the Signaling Mechanism", <i>Endocrinology</i> (1995), V. 136, No. 11, Pages 4790-95.
17.	McGuire, et al., "An Enzyme Related to the High Molecular Weight Multicatalytic Proteinase, Macropain, Participates in a Ubiquitin-Mediated, ATP-Stimulated Proteolytic Pathway in Soluble Extracts of BHK 21/C13 Fibroblasts", <i>BBA-Biochimica Biophysica Acta</i> (1988), V. 967, Pages 195-203.
18.	Orlowski, "The Multicatalytic Proteinase Complex, a Major Extralysosomal Proteolytic System", <i>Biochemistry</i> (1990), V. 29, No. 45, Pages 10289-97.
19.	Rechsteiner, "Ubiquitin-Mediated Pathways for Intracellular Proteolysis", <i>Annual Review of Cell Biology</i> (1987), V. 3, Pages 1-30.
20.	Speiser, et al., "Loss of ATP-Dependent Proteolysis with Maturation of Reticulocytes and Erythrocytes", <i>Journal of Biological Chemistry</i> (1982), V. 257, No. 23, Pages 14122-14127.
21.	Townsley, et al., "Dominant-Negative Cyclin-Selective Ubiquitin Carrier Protein E2-C/UbcH10 Blocks Cells in Metaphase", <i>Proceedings of the National Academy of Sciences USA</i> (1997), V. 94, Pages 2362-67.
22.	van Nocker et al., "The Multiubiquitin-Chain-Binding Protein Mub1 Is a Component of the 26S Proteasome in <i>Saccharomyces cerevisiae</i> and Plays a Nonessential, Substrate-Specific Role in Protein Turnover", <i>Molecular and Cellular Biology</i> (1996), V. 16, No. 11, Pages 6020-28.
23.	Waxman, et al., "Demonstration of Two Distinct High Molecular Weight Proteases in Rabbit Reticulocytes, One of Which Degrades Ubiquitin Conjugates", <i>Journal of Biological Chemistry</i> (1987), V. 262, No. 6, Pages. 2451-2457.
24.	Lahav-Baratz, et al., "Reversible Phosphorylation Controls the Activity of Cyclosome-Associated Cyclin-Ubiquitin Ligase", <i>Proceedings of the National Academy of Sciences USA</i> (1995), V. 92, Pages 9303-9307.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**Copies of references not provided at the time of this submission.